

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/804,912	KIM ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thai D. Hoang	2667	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/28/2005.
2. ☒ The allowed claim(s) is/are 1-2, 4-6 and 8-13 have been renumbered as 1-11 respectively.
3. ☐ The drawings filed on 13 March 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Manu J. Tejwani on June 17, 2002.

The application has been amended as follows:

Claims 14-36 have been cancelled.

Claim 8, line 1, the statement "claim 7" has been changed to – claim 6 --

Claim 9, line 1, the statement "claim 7" has been changed to – claim 6 –

Claim 13. (Currently Amended) In an Internet Protocol network having a processor, a computer readable recording medium for recording a program for implementing the functions of:

(a) modeling to provide, by a server, mobility management, Quality of Service, authentication and authorization management, accounting management and service management functions for a roaming terminal by using a common subscriber database for Internet Protocol service, wherein, during step (a), the method uses a first protocol for mobility management and the service management and a second protocol for Quality of Service management, for authentication and accounting management as

application layer protocol, and for constructing protocol stack for implementing common subscriber management function; and

(b) setting a Security Association function for voice processing by setting up a call between an Internet Protocol visiting network and a home network by the server and commonly managing the mobility management, Quality of Service, authentication and authorization management, accounting management, and service management functions.

***Allowable Subject Matter***

Claims 1-2, 4-6 and 8-13 have been renumbered as 1-11 respectively.

Claims 1-11 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Akhtar et al, US Patent No. 6769000 B1 discloses a system called "Unified directory services architecture for an IP mobility architecture framework." Akhtar does not teach or fairly suggest the following features, which are recited in each independent claim of the present application:

(i) A common subscriber managing apparatus for use in an Internet Protocol network in which a circuit network for voice and a packet network for data are integrated, the apparatus comprising:

first portable user terminating means;

wireless interfacing means;

call controlling means; and

common subscriber managing means for providing Security Association setup function for voice processing and commonly managing mobility management, Quality of Service, authentication and authorization management, accounting management and service management functions for said first user terminating means by using a common subscriber database, wherein said common subscriber managing means uses a first protocol for mobility management and service management and a second protocol for Quality of Service management, for authentication and accounting management as an application layer protocol, and for constructing protocol stack for implementing common subscriber management function as recited in independent claim 1.

(ii) In an Internet Protocol network having a processor, a computer readable recording medium for recording a program for implementing the functions of:

(a) modeling to provide, by a server, mobility management, Quality of Service, authentication and authorization management, accounting management and service management functions for a roaming terminal by using a common subscriber database for Internet Protocol service, wherein, during step (a), the method uses a first protocol for mobility management and the service management and a second protocol for Quality of Service management, for authentication and accounting management as application layer protocol, and for constructing protocol stack for implementing common subscriber management function as recited in independent claim 5 and 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

  
CHI PHAM  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2667 6/20/05